

ABSTRACT OF THE DISCLOSURE

5 A feedback compensating apparatus for adjusting the working  
condition of a working machine of a working system adapted  
to process working portions of successive workpieces under  
control of a machine controller, which determines the  
working condition from an extraneous signal. The apparatus  
is used with the controller and a measuring device for  
measuring the dimensions of the processed working portions  
of the workpieces, and includes a device for obtaining  
10 dimensional data based on outputs of the measuring device  
during and/or after a working operation of the machine on  
each workpiece. The dimensional data include a dimensional  
error of the processed working portions, and a variable  
indicative of a tendency of change in the dimensional error.  
15 The apparatus further includes a device for determining the  
extraneous signal based on the dimensional data, and  
applying the signal to the machine controller to adjust the  
working condition of the machine. Also disclosed is a method  
of processing workpieces using the apparatus.